

5. The injector of claim 4, characterized in that the diameter graduation of the valve chamber diameter (9) to the head region diameter (6) acts as a throttle and limits the flow in the middle position of the head region (6) of the control part (4) in the valve chamber (8, 38).

6. The injector of claim 1, characterized in that the coincidence of the stroke paths h_1 , h_2 at the head region (6) of the control part (4) is equal to that of the stroke paths h_3 , h_4 of the slide elements (13, 21) of the control part (4) on the downstream side.

7. The injector of claim 1, characterized in that the injection nozzle system (11, 12, 34), after the preinjection phase (41), is pressure-relieved to the leak fuel line (16) via an annular chamber (22) on the lower slide element (21).

8. The injector of claim 1, characterized in that the injection nozzle system (11, 12, 34), after the main injection phase (42), is pressure-relieved via an annular leak fuel chamber (14) provided on the upper slide element (13).

9. The injector of claim 1, characterized in that all the guide and seat diameters of the control part (4) have the same diameter (7), and the control part (4) is force- balanced.